A. Decloux

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                    RAW SEQUENCE LISTING              DATE: 07/06/2000
                    PATENT APPLICATION:  US/09/053,871A    TIME: 13:08:08

                    Input Set : A:\51917-b1.app
                    Output Set: N:\CRF3\07062000\I053871A.raw

     3 <110> APPLICANT: Pinsky, David J.
     4        Stern, David
     5        Rose, Eric
     6        Solomon, Robert A.
     7        Schmidt, Ann Marie
     9 <120> TITLE OF INVENTION: METHODS FOR TREATING AN ISCHEMIC DISORDER AND IMPROVING
    10        STROKE OUTCOME
    12 <130> FILE REFERENCE: 51917-B
    14 <140> CURRENT APPLICATION NUMBER: 09/053,871A
    15 <141> CURRENT FILING DATE: 1998-04-01
    17 <160> NUMBER OF SEQ ID NOS: 22
    19 <170> SOFTWARE: PatentIn Ver. 2.1
    21 <210> SEQ ID NO: 1
    22 <211> LENGTH: 29
    23 <212> TYPE: DNA
    24 <213> ORGANISM: Artificial Sequence
    26 <220> FEATURE:
    27 <223> OTHER INFORMATION: Description of Artificial Sequence:
    28        Oligonucleotides for producing Factor IXmi.
    30 <220> FEATURE:
    31 <223> OTHER INFORMATION: NNN=the complement to a DNA codon for any one of
    32        the standard amino acids other than serine.
    34 <400> SEQUENCE: 1
W--> 35 tacagttcct ctannncccc ctggggtac                       29
    38 <210> SEQ ID NO: 2
    39 <211> LENGTH: 30
    40 <212> TYPE: DNA
    41 <213> ORGANISM: Artificial Sequence
    43 <220> FEATURE:
    44 <223> OTHER INFORMATION: Description of Artificial Sequence:
    45        Oligonucleotides for producing Factor IXmi.
    47 <220> FEATURE:
    48 <223> OTHER INFORMATION: NNN=the complement to a DNA codon for any one of
    49        the standard amino acids other than serine.
    51 <400> SEQUENCE: 2
W--> 52 tacagttcct ctannncccc ctggggtaca                      30
    55 <210> SEQ ID NO: 3
    56 <211> LENGTH: 31
    57 <212> TYPE: DNA
    58 <213> ORGANISM: Artificial Sequence
    60 <220> FEATURE:
    61 <223> OTHER INFORMATION: Description of Artificial Sequence:
    62        Oligonucleotides for producing Factor IXmi.
    64 <220> FEATURE:
    65 <223> OTHER INFORMATION: NNN=the complement to a DNA codon for any one of
    66        the standard amino acids other than serine.
    68 <400> SEQUENCE: 3
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RAW SEQUENCE LISTING   DATE: 07/06/2000
PATENT APPLICATION: US/09/053,871A   TIME: 13:08:08

Input Set : A:\51917-b1.app
Output Set: N:\CRF3\07062000\I053871A.raw

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W--> 69 tacagttcct ctannncccc ctggggtaca a                          31
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     73 <211> LENGTH: 30
     74 <212> TYPE: DNA
     75 <213> ORGANISM: Artificial Sequence
     77 <220> FEATURE:
     78 <223> OTHER INFORMATION: Description of Artificial Sequence:
     79      Oligonucleotides for producing Factor IXmi.
     81 <220> FEATURE:
     82 <223> OTHER INFORMATION: NNN=the complement to a DNA codon for any one of
     83      the standard amino acids other than serine.
     85 <400> SEQUENCE: 4
W--> 86 gtacagttcc tctannnccc cctggggtac                            30
     89 <210> SEQ ID NO: 5
     90 <211> LENGTH: 31
     91 <212> TYPE: DNA
     92 <213> ORGANISM: Artificial Sequence
     94 <220> FEATURE:
     95 <223> OTHER INFORMATION: Description of Artificial Sequence:
     96      Oligonucleotides for producing Factor IXmi.
     98 <220> FEATURE:
     99 <223> OTHER INFORMATION: NNN=the complement to a DNA codon for any one of
    100      the standard amino acids other than serine.
    102 <400> SEQUENCE: 5
W--> 103 gtacagttcc tctannnccc cctggggtac a                         31
    106 <210> SEQ ID NO: 6
    107 <211> LENGTH: 32
    108 <212> TYPE: DNA
    109 <213> ORGANISM: Artificial Sequence
    111 <220> FEATURE:
    112 <223> OTHER INFORMATION: Description of Artificial Sequence:
    113      Oligonucleotides for producing Factor IXmi.
    115 <220> FEATURE:
    116 <223> OTHER INFORMATION: NNN=the complement to a DNA codon for any one of
    117      the standard amino acids other than serine.
    119 <400> SEQUENCE: 6
W--> 120 gtacagttcc tctannnccc cctggggtac aa                        32
    123 <210> SEQ ID NO: 7
    124 <211> LENGTH: 32
    125 <212> TYPE: DNA
    126 <213> ORGANISM: Artificial Sequence
    128 <220> FEATURE:
    129 <223> OTHER INFORMATION: Description of Artificial Sequence:
    130      Oligonucleotides for producing Factor IXmi.
    132 <220> FEATURE:
    133 <223> OTHER INFORMATION: NNN=the complement to a DNA codon for any one of
    134      the standard amino acids other than serine.
    136 <400> SEQUENCE: 7
W--> 137 agttacagtt cctctannnc cccctggggt ac                        32
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RAW SEQUENCE LISTING   DATE: 07/06/2000
PATENT APPLICATION: US/09/053,871A   TIME: 13:08:08

Input Set : A:\51917-bl.app
Output Set: N:\CRF3\07062000\I053871A.raw

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    142 <212> TYPE: DNA
    143 <213> ORGANISM: Artificial Sequence
    145 <220> FEATURE:
    146 <223> OTHER INFORMATION: Description of Artificial Sequence:
    147       Oligonucleotides for producing Factor IXmi.
    149 <220> FEATURE:
    150 <223> OTHER INFORMATION: NNN=the complement to a DNA codon for any one of
    151       the standard amino acids other than serine.
    153 <400> SEQUENCE: 8
W--> 154 agttacagtt cctctannnc cccctggggt aca                          33
    157 <210> SEQ ID NO: 9
    158 <211> LENGTH: 34
    159 <212> TYPE: DNA
    160 <213> ORGANISM: Artificial Sequence
    162 <220> FEATURE:
    163 <223> OTHER INFORMATION: Description of Artificial Sequence:
    164       Oligonucleotides for producing Factor IXmi.
    166 <220> FEATURE:
    167 <223> OTHER INFORMATION: NNN=the complement to a DNA codon for any one of
    168       the standard amino acids other than serine.
    170 <400> SEQUENCE: 9
W--> 171 agttacagtt cctctannnc cccctggggt acaa                         34
    174 <210> SEQ ID NO: 10
    175 <211> LENGTH: 29
    176 <212> TYPE: DNA
    177 <213> ORGANISM: Artificial Sequence
    179 <220> FEATURE:
    180 <223> OTHER INFORMATION: Description of Artificial Sequence:
    181       Oligonucleotides for producing Factor IXmi.
    183 <220> FEATURE:
    184 <223> OTHER INFORMATION: NNN=the complement to a DNA codon for any one of
    185       the standard amino acids other than aspartic acid
    186       and cysteine.
    188 <400> SEQUENCE: 10
W--> 189 attcatgtta gtannntaac gcgaagacc                               29
    192 <210> SEQ ID NO: 11
    193 <211> LENGTH: 30
    194 <212> TYPE: DNA
    195 <213> ORGANISM: Artificial Sequence
    197 <220> FEATURE:
    198 <223> OTHER INFORMATION: Description of Artificial Sequence:
    199       Oligonucleotides for producing Factor IXmi.
    201 <220> FEATURE:
    202 <223> OTHER INFORMATION: NNN=the complement to a DNA codon for any one of
    203       the standard amino acids other than aspartic acid
    204       and cysteine.
    206 <400> SEQUENCE: 11
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RAW SEQUENCE LISTING   DATE: 07/06/2000
PATENT APPLICATION: US/09/053,871A   TIME: 13:08:08

        Input Set : A:\51917-bl.app
        Output Set: N:\CRF3\07062000\I053871A.raw

W--> 207 attcatgtta gtannntaac gcgaagacct   30
     210 <210> SEQ ID NO: 12
     211 <211> LENGTH: 31
     212 <212> TYPE: DNA
     213 <213> ORGANISM: Artificial Sequence
     215 <220> FEATURE:
     216 <223> OTHER INFORMATION: Description of Artificial Sequence:
     217   Oligonucleotides for producing Factor IXmi.
     219 <220> FEATURE:
     220 <223> OTHER INFORMATION: NNN=the complement to a DNA codon for any one of
     221   the standard amino acids other than aspartic acid
     222   and cysteine.
     224 <400> SEQUENCE: 12
W--> 225 attcatgtta gtannntaac gcgaagacct t   31
     228 <210> SEQ ID NO: 13
     229 <211> LENGTH: 30
     230 <212> TYPE: DNA
     231 <213> ORGANISM: Artificial Sequence
     233 <220> FEATURE:
     234 <223> OTHER INFORMATION: Description of Artificial Sequence:
     235   Oligonucleotides for producing Factor IXmi.
     237 <220> FEATURE:
     238 <223> OTHER INFORMATION: NNN=the complement to a DNA codon for any one of
     239   the standard amino acids other than aspartic acid
     240   and cysteine.
     242 <400> SEQUENCE: 13
W--> 243 tattcatgtt agtannntaa cgcgaagacc   30
     246 <210> SEQ ID NO: 14
     247 <211> LENGTH: 31
     248 <212> TYPE: DNA
     249 <213> ORGANISM: Artificial Sequence
     251 <220> FEATURE:
     252 <223> OTHER INFORMATION: Description of Artificial Sequence:
     253   Oligonucleotides for producing Factor IXmi.
     255 <220> FEATURE:
     256 <223> OTHER INFORMATION: NNN=the complement to a DNA codon for any one of
     257   the standard amino acids other than aspartic acid
     258   and cysteine.
     260 <400> SEQUENCE: 14
W--> 261 tattcatgtt agtannntaa cgcgaagacc t   31
     264 <210> SEQ ID NO: 15
     265 <211> LENGTH: 32
     266 <212> TYPE: DNA
     267 <213> ORGANISM: Artificial Sequence
     269 <220> FEATURE:
     270 <223> OTHER INFORMATION: Description of Artificial Sequence:
     271   Oligonucleotides for producing Factor IXmi.
     273 <220> FEATURE:
     274 <223> OTHER INFORMATION: NNN=the complement to a DNA codon for any one of

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RAW SEQUENCE LISTING                          DATE: 07/06/2000
PATENT APPLICATION:  US/09/053,871A           TIME: 13:08:08

Input Set : A:\51917-bl.app
Output Set: N:\CRF3\07062000\I053871A.raw
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```
        275        the standard amino acids other than aspartic acid
        276        and cysteine.
        278 <400> SEQUENCE: 15
W--> 279 tattcatgtt agtannntaa cgcgaagacc tt                        32
        282 <210> SEQ ID NO: 16
        283 <211> LENGTH: 31
        284 <212> TYPE: DNA
        285 <213> ORGANISM: Artificial Sequence
        287 <220> FEATURE:
        288 <223> OTHER INFORMATION: Description of Artificial Sequence:
        289        Oligonucleotides for producing Factor IXmi.
        291 <220> FEATURE:
        292 <223> OTHER INFORMATION: NNN=the complement to a DNA codon for any one of
        293        the standard amino acids other than aspartic acid
        294        and cysteine.
        296 <400> SEQUENCE: 16
W--> 297 ttattcatgt tagtannnta acgcgaagac c                         31
        300 <210> SEQ ID NO: 17
        301 <211> LENGTH: 32
        302 <212> TYPE: DNA
        303 <213> ORGANISM: Artificial Sequence
        305 <220> FEATURE:
        306 <223> OTHER INFORMATION: Description of Artificial Sequence:
        307        Oligonucleotides for producing Factor IXmi.
        309 <220> FEATURE:
        310 <223> OTHER INFORMATION: NNN=the complement to a DNA codon for any one of
        311        the standard amino acids other than aspartic acid
        312        and cysteine.
        314 <400> SEQUENCE: 17
W--> 315 ttattcatgt tagtannnta acgcgaagac ct                        32
        318 <210> SEQ ID NO: 18
        319 <211> LENGTH: 33
        320 <212> TYPE: DNA
        321 <213> ORGANISM: Artificial Sequence
        323 <220> FEATURE:
        324 <223> OTHER INFORMATION: Description of Artificial Sequence:
        325        Oligonucleotides for producing Factor IXmi.
        327 <220> FEATURE:
        328 <223> OTHER INFORMATION: NNN=the complement to a DNA codon for any one of
        329        the standard amino acids other than aspartic acid
        330        and cysteine.
        332 <400> SEQUENCE: 18
W--> 333 ttattcatgt tagtannnta acgcgaagac ctt                       33
        336 <210> SEQ ID NO: 19
        337 <211> LENGTH: 33
        338 <212> TYPE: DNA
        339 <213> ORGANISM: Artificial Sequence
        341 <220> FEATURE:
        342 <223> OTHER INFORMATION: Description of Artificial Sequence:
```

Please Note:
**Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220> to
<223> fields of each sequence which presents at least one n or Xaa.**

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                    VERIFICATION SUMMARY              DATE: 07/06/2000
                    PATENT APPLICATION:  US/09/053,871A    TIME: 13:08:09

                    Input Set : A:\51917-bl.app
                    Output Set: N:\CRF3\07062000\I053871A.raw

L:35 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1
L:35 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:1
L:35 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1
L:52 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2
L:52 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2
L:52 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:2
L:69 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3
L:69 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
L:69 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3
L:86 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:4
L:86 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:4
L:86 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:4
L:103 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:5
L:103 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:5
L:103 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:5
L:120 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:6
L:120 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:6
L:120 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:6
L:137 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:7
L:137 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:7
L:137 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:7
L:154 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:8
L:154 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:8
L:154 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:8
L:171 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:9
L:171 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:9
L:171 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:9
L:189 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:10
L:189 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:10
L:189 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:10
L:207 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:11
L:207 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:11
L:207 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:11
L:225 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:12
L:225 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:12
L:225 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:12
L:243 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:13
L:243 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:13
L:243 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:13
L:261 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:14
L:261 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:14
L:261 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:14
L:279 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:15
L:279 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:15
L:279 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:15
L:297 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:16
L:297 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:16
L:297 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:16
```

VERIFICATION SUMMARY   DATE: 07/06/2000
PATENT APPLICATION: US/09/053,871A   TIME: 13:08:09

Input Set : A:\51917-b1.app
Output Set: N:\CRF3\07062000\I053871A.raw

```
L:315 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:17
L:315 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:17
L:315 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:17
L:333 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:18
L:333 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:18
L:333 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:18
L:351 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:19
L:351 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:19
L:351 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:19
```